## ENGINEERING CHANGE NOTICE DART AEROSPACE LTD

							MPL	)	
Date: 19.01.17 Job No.:				NO AL	R Date:		DOW#.	19- 5	
Product No.: DART TOOLING MD			Created By:	VM <sub>)</sub> Ap	proved By:	Me	#:	19- 5	)14
Product Name:			Checked By:	W.					
Reason for Change: NEW ISSUE									
Documents Released:									
RBD29904 REV A									and the state of t
IF APPLICABLE: NCR: PAR:		CAR:		CIR:			URF:		_
		COMPL	Υ	PREVIO	OUS PAR	IS SATISF		Х	<u> </u>
# Quality Assurance / Customer Support Actions	Reqd	Resp		Note	S		Co	mplete	
1 Notify Previous Customers	N	<b> </b>				/			
2 Notify Airbus	N N	ļ			/	<b>/</b>	<u> </u>		
3 Notify Leonardo	N	ļ					<u> </u>		
4 Manufacturing Licensing Agreement Update	N	L					<u> </u>		
# Engineering Actions	Reqd	Resp		Note	s l		Co	mplete	
5 Required Documents/Drawings/Item ID's Under Review (URF)	N								
6 Update Master Document List (MDL)	N								
7 Update Document Record (DR)  8 Update Product Compatability Matrix	N N								
9 Notify TC / FAA of Change (eg. ICA, 8110-3)	N	<b></b>			/		-		
10	N				_/_		<b>i</b>		
	Ť	T _			_/_		7		
# Document Control Actions  11 Move / Update Electronic Files / Design Journal	Reqd Y	Resp MD		Note	5 /	- (-	Co	mplete	1 ,7
12 Update Product Specification Files (Bluefiles)	<del> </del>	UID			/		$\mathcal{V}_{\mathcal{L}}$	17.0	1.1.4
13 Update Approved/Preliminary Dwg PDF Files	Y	MD					201.1	9 0	177
14 Update Product Development Summary (STC applications)	N						1		
15 Update QSI 021 (TC/FAA STC) and/or STC Approval List	N						0		
16 Create/Update Parts / STC Database	144	ma		_/_			mi.	19.01.	.17
Update / Verify Authorized Release Certificate Database     Create / Update Change Record Form / Item Card Database	N Y	_MĐ		-/			2011		
19 Create / Update Packaging Process Plan (PPP)	N			/					
20 Red Decals required on Packaging Process Plan (PPP)?	N		/						
21 Update Controlled Supplier Documents (Qpulse) Database	N		/						
22 Update Grey Project Binder / Electronic Project Folder	N N		<del>/</del>						
23 Update D-Part / M-Drawing / DSI / DEO Master Binders 24 Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N N		<del>/</del>						
25	<del>  '`</del>		<del>/</del>						
			(1	A					
Description / Action: RELEASE REV A NEW ISSUE PARTS MADE AT REV. C ARE SATISFACTORY. ANODIZE FINISH COLOU	R NOT C	RITICAL		4	- 19	01-7-	7		
		ECN Ver	ified & Complete:			Date:		/	

## ENGINEERING CHANGE NOTICE DART AEROSPACE LTD

							MPP	
Date: 19.01.17 Job No.:		l.	ADR Yes/No:	VO	ADR Date:	N/A	T-0/4	19- 514
Product No.: DART TOOLING MD			Created By:	VM7	Approved By:		E@N #:	19- 514
Product Name: Hoist Adapter "D" Mode	2		Checked By:	121.			7	
Reason for Change: NEW ISSUE								
Documents Released:								
RBD29904 REV A								
IF APPLICABLE: NCR: PAR:		CAR:		CIR:			URF:	
land .	MUST	COMPLY	x	PRE	VIOUS PAR	TS SATISF	ACTORY	
# Quality Assurance / Customer Support Actions	Reqd	Resp		N	lotes		Co	mplete
1 Notify Previous Customers	N							
2 Notify Airbus	N							
3 Notify Leonardo	N N	<b> </b>					<b>_</b>	
4 Manufacturing Licensing Agreement Update	N						1	
# Engineering Actions	Reqd	Resp		N	lotes		Co	mplete
5 Required Documents/Drawings/Item ID's Under Review (URF)	N							
6 Update Master Document List (MDL) 7 Update Document Record (DR)	N N	<del> </del> -					<b>-</b>	
8 Update Product Compatability Matrix	I N	$\vdash$					<b>-</b>	
9 Notify TC / FAA of Change (eg. ICA, 8110-3)	N						1	
10	N						<u> </u>	
# Document Control Actions	Reqd	Resp		N	lotes		/Go	mplete
11 Move / Update Electronic Files / Design Journal	Υ	MD					ms.	19.01.17
12 Update Product Specification Files (Bluefiles)	N	I I	***************************************				J. C.	<del>()                                    </del>
Update Approved/Preliminary Dwg PDF Files     Update Product Development Summary (STC applications)	Y N	MD					100	7.01.1 1
15 Update QSI 021 (TC/FAA STC) and/or STC Approval List	N N						$\Gamma$	
16 Create/Update Parts / STC Database	AM	mG					w.	19.01.17
17 Update / Verify Authorized Release Certificate Database 18 Create / Update Change Record Form / Item Card Database	N X	MĐ				***************************************	ļ	
19 Create / Update Change Record Form / Item Card Database	N N	1412	***************************************				<b>_</b>	
20 Red Decals required on Packaging Process Plan (PPP)?	N							
21 Update Controlled Supplier Documents (Qpulse) Database	N							
22 Update Grey Project Binder / Electronic Project Folder 23 Update D-Part / M-Drawing / DSI / DEO Master Binders	N	<b> </b>						
24 Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N						<b>-</b>	
25								
Description / Action:								
Description / Action:						1		
RELEASE REV A NEW ISSUE			SI	X Al	effe	hed	01.1	1
		ECN Vorifi	ed & Complete:			Date		

Entered: Date:		APT								
	WORK ORDER NON-CON	WORK ORDER NON-CONFORMANCE / ROUTE UPDATE								
NCR No.			Route update only							
	DISPOSITION	DEPARTMENT/PROCESS								
Job:		Skid-tube Cross tube	Eng. (Non-AW)	Engineering						
Down No.	Rework Scrap	Machining Small Fab								
Part No.	Use-as-is	Large Fab Finishing								
	030 43 13	zarge rau		Quality						
Date :	Sequence #:	QTY Affected :		MRB (QSI042)						
Description	Work Order Deviation	Disposition								
				Completed By						
[편공 기공학 전 기 왕의 · ] - [ - ]										
				Lead hand / Supervisor						
				QC / QA Coordinator						
				QC / QA coordinator						
Park Course		FAULT CATEGOR	V							
Root Cause	Pressure/Forced	Contamination	Power Loss/Surge	Positioned Wrong						
Operator	Bending	Misaligned/off center	Folio/Program	Outside Tolerance						
Manufacturing Process	Crushing	BOM/Route	Grain Direction	Drawing						
Equip/Tooling	Cracks	Broken/Damage/Defect	Weld	Finish						
Handling/Presservation	Crimp/Kink/Ripple/Wave/Twist	Incomplete/Unclear Instructions	Wrong Stock Pulled	Part Lost/Missing						
Material	Marks/Chatter	Drill Holes	Out of Sequence	Misread						
Product Improvement	Mislabeled	Fit/Function								
Process Improvement	Other/Details:		Off-set/Set-up							
Human Factors										

## Linda Lacelle

From:

Ketan Tailor

Sent:

Thursday, January 17, 2019 11:37 AM

To:

Daniel Paquette; Linda Lacelle

Cc:

Vanessa Morel; Michael Lee; David Duval

Subject:

RE: ECN 19-514

Hey Dan,

The parts that we have at Rev. C are still good. It's only the finish that has changed.

Thanks,

Ketan

From: Daniel Paquette <dpaquette@dartaero.com>

**Sent:** January-17-19 11:11 AM

To: Linda Lacelle Linda Lacelle Com>; Ketan Tailor Ktailor@dartaero.com>

Subject: RE: ECN 19-514

Linda, From what I can tell it's the Anodize red instead of clear the hardware is the same.

Ketan, we have 11 of these in stock made at rev C. Are these still good? Please advise.

From: Linda Lacelle < <a href="mailto:llacelle@dartaero.com">llacelle@dartaero.com</a> Sent: Thursday, January 17, 2019 10:39 AM
To: Daniel Paquette <a href="mailto:dpaquette@dartaero.com">dpaquette@dartaero.com</a>

Subject: FW: ECN 19-514

What has changed on this pls?

From: Michelle GagnonDonovan <mgagnondonovan@dartaero.com>

Sent: Thursday, January 17, 2019 10:26 AM

To: Daniel Paquette <dpaquette@dartaero.com>; David Duval <dduval@dartaero.com>; David Logan <dlogan@dartaero.com>; Eric Downing <edowning@dartaero.com>; Eric Lalande <elalande@dartaero.com>; Jean Francois Sauve <jfsauve@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>; Jennifer Renwick <jrenwick@dartaero.com>; Jesse White <jwhite@dartaero.com>; Linda Lacelle <ll>|lacelle@dartaero.com>; Lisa McMachen <|mcmachen@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>; Marcel Daviau <mdaviau@dartaero.com>; Marie Lajeunesse <mlajeunesse@dartaero.com>; Patrick Duval <pdaval@dartaero.com>; Robert Aboud <raboud@dartaero.com>; Ross Black <rbox/rblack@dartaero.com>; Steven Drouin <sdroin@dartaero.com>; Steven Hemmerich <shemmerich@dartaero.com>; Support Eugene <support.or@dartaero.com>; Support Hawkesbury <support.on@dartaero.com>

Subject: ECN 19-514

Hello All,

Please find a copy of ECN 19-514 attached.

Thank you,

Michelle Gagnon-Donovan

Document Control

DART AEROSPACE T 1 613 632-5300 > 251

www.dartaerospace.com

